1) a) Të caktohet matrica e fqinjësisë

$$A = \begin{array}{c|cccccccccc} & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 \\ \hline 1 & 1 & 0 & 0 & 1 & 1 & 0 & 0 & 0 & 1 & 0 \\ 2 & 0 & 1 & 0 & 1 & 0 & 1 & 0 & 0 & 0 & 0 \\ 3 & 0 & 0 & 1 & 0 & 1 & 0 & 0 & 1 & 0 & 1 \\ 4 & 1 & 1 & 0 & 1 & 1 & 0 & 0 & 0 & 0 & 1 \\ 5 & 1 & 0 & 1 & 1 & 1 & 0 & 0 & 1 & 0 & 0 \\ 6 & 0 & 1 & 0 & 0 & 0 & 1 & 0 & 1 & 1 & 0 \\ 7 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1 & 0 & 0 \\ 8 & 0 & 0 & 1 & 0 & 1 & 1 & 1 & 1 & 0 & 0 \\ 9 & 1 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 1 & 0 \\ 10 & 0 & 0 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 1 \end{array}_{10\times 10}$$

b) Të caktohet matrica e incidencës

$$M = \begin{array}{c|cccccccccccccccccccccccc} & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 & 17 & 18 & 19 & 20 & 21 & 22 & 23 & 24 \\ \hline 1 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 1 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 2 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 4 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1 & 0 & 1 & 0 & 0 & 0 & 1 & 1 & 1 \\ 5 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1 & 1 & 0 & 0 & 1 & 0 & 0 \\ 6 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 1 & 0 \\ 7 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 8 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 9 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 1 & 0 \\ 10 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1 & 0 & 0 \end{array}_{10\times 24}$$

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2)

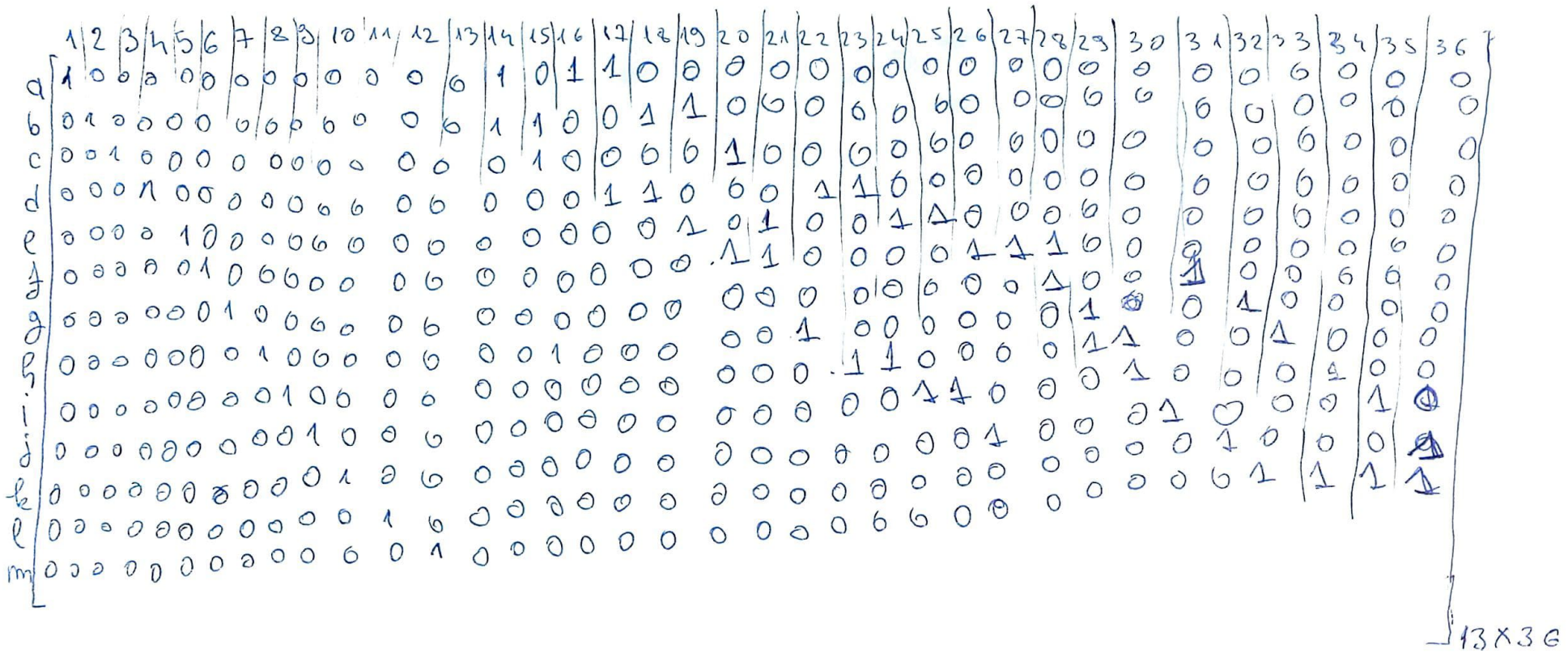
a) Të caktohet matrica e fqinjësisë

$A =$

	a	b	c	d	e	f	g	h	i	j	k	l	m
a	1	1	0	1	0	0	0	1	0	0	0	0	0
b	1	1	1	1	1	0	0	0	0	0	0	0	0
c	0	1	1	0	0	1	0	0	0	0	0	0	0
d	1	1	0	1	0	0	0	1	1	0	0	0	0
e	0	1	0	0	1	1	0	0	1	1	0	0	0
f	0	0	1	0	1	1	1	0	0	1	1	0	0
g	0	0	0	0	0	1	1	0	0	0	1	0	0
h	1	0	0	1	0	0	0	1	1	0	0	1	0
i	0	0	0	1	1	0	0	1	1	1	0	0	1
j	0	0	0	0	1	1	0	0	1	1	0	0	1
k	0	0	0	0	0	1	1	0	0	0	1	0	1
l	0	0	0	0	0	0	0	1	0	0	0	1	1
m	0	0	0	0	0	0	0	0	1	1	1	1	1

13x13

b) Të caktohet matrica e incidencës



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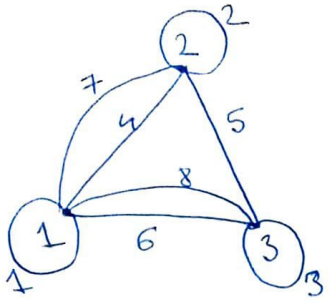
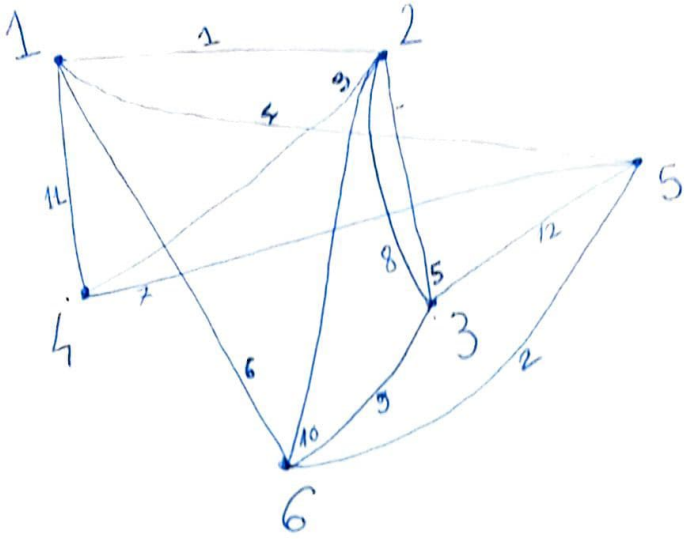
3) a/ Të caktohet grafi G



b) Të caktohet matrica e fqinjësisë

$$A = \begin{array}{c} \\ 1 \\ 2 \\ 3 \end{array} \begin{array}{c} \begin{array}{ccc} 1 & 2 & 3 \end{array} \\ \begin{bmatrix} 1 & 2 & 2 \\ 2 & 1 & 1 \\ 2 & 1 & 1 \end{bmatrix}_{3\times 3} \end{array}$$

4) a) Të caktohet grafi G.



b) Të caktohet matrica e fqinjësisë:

$$=\begin{array}{c} \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \end{array}\begin{array}{c} \begin{array}{cccccc} 1 & 2 & 3 & 4 & 5 & 6 \end{array} \\ \left[\begin{array}{cccccc} 0 & 1 & 0 & 1 & 1 & 1 \\ 1 & 0 & 2 & 1 & 0 & 1 \\ 0 & 2 & 0 & 0 & 1 & 1 \\ 1 & 1 & 0 & 0 & 1 & 0 \\ 1 & 0 & 1 & 1 & 0 & 1 \\ 1 & 1 & 1 & 0 & 1 & 0 \end{array}\right] \end{array}$$

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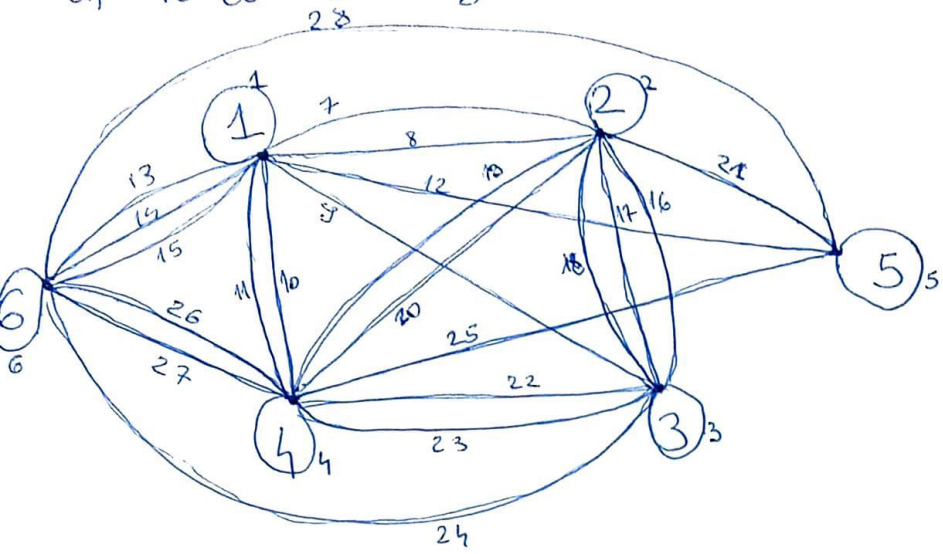
5)

a) Të caktohet grafi G.



b)

M=

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0
3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	0
4	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	1	1	0	1	1	1	0
5	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1
6	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	0	1	1	1	1

6)

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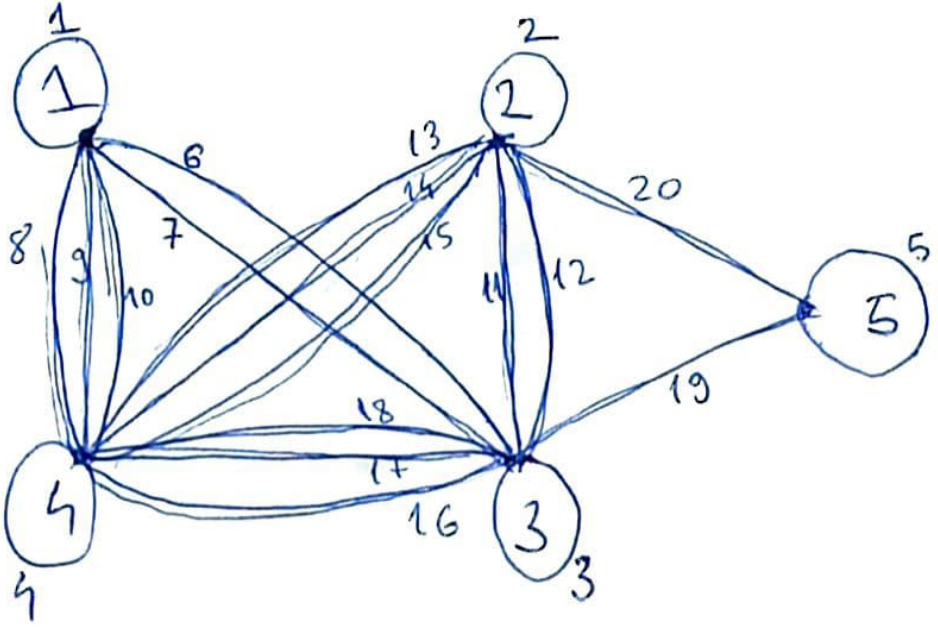
a) Të caktohet grafi G.



6)

b) Tê caktohet matrica e incidencës:

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$M =$

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	1	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
2	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	1
3	0	0	1	0	0	1	1	0	0	0	1	1	0	0	0	1	1	1	1	0
4	0	0	0	1	0	0	0	1	1	1	0	0	1	1	1	1	1	1	0	0
5	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1

5×20

7) $d(V_1, V_5) = ?$ $l(V_1) = 0$ $l(V_2) = l(V_3) = l(V_4) = l(V_5) = l(V_6) = \infty$

Hopi I: $l(V_1) = 0$ $S_1 = \{V_1\}$ $S_1^c = \{V_2, V_3, V_4, V_5, V_6\}$

$l(V_2) = \min\{\infty, 0+1\} = 1$ ✓
$l(V_3) = \min\{\infty, 0+3\} = 3$
$l(V_4) = \min\{\infty, 0+\infty\} = \infty$
$l(V_5) = \min\{\infty, 0+6\} = 6$
$l(V_6) = \min\{\infty, 0+\infty\} = \infty$

Hopi II: $l(V_2) = 1$ $S_2 = \{V_1, V_2\}$

$l(V_3) = \min\{3, 1+2\} = 3$ ✓
$l(V_4) = \min\{\infty, 1+3\} = 4$
$l(V_5) = \min\{6, 1+5\} = 6$
$l(V_6) = \min\{\infty, 1+\infty\} = \infty$

Hopi III: $l(V_3) = 3$ $S_3 = \{V_1, V_2, V_3\}$

$l(V_4) = \min\{4, 3+5\} = 4$ ✓
$l(V_5) = \min\{6, 3+\infty\} = 6$
$l(V_6) = \min\{\infty, 3+2\} = 5$

Hopi IV: $l(V_4) = 4$ $S_4 = \{V_1, V_2, V_3 V_4\}$

$l(V_5) = \min\{6, 4+2\} = 6$
$l(V_6) = \min\{5, 4+2\} = 5$ ✓

Hopi VI: $l(V_6) = 5$ $S_6 = \{V_1, V_2, V_3, V_4, V_6\}$

$l(V_5) = \min\{6, 5+1\} = 6$ ✓

$\boxed{d(V_1, V_5) = 6}$

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8) $d(0,5) = ?$ $\ell(0) = 0$ $\ell(1) = \ell(2) = \ell(3) = \ell(4) = \ell(5) = \ell(6) = \ell(7) = \ell(8)$

Hopi 1: $\ell(0) = 0$ $S_0 = \{0\}$ $S_0^c = \{1,2,3,4,5,6,7,8\}$

$\ell(1) = \min\{\infty, 0+4\} = 4$ ✓

$\ell(2) = \min\{\infty, 0+\infty\} = \infty$

$\ell(3) = \min\{\infty, 0+\infty\} = \infty$

$\ell(4) = \ell(5) = \ell(6) = \ell(8) = \infty$

$\ell(7) = \min\{\infty, 0+8\} = 8$

Hopi 2: $\ell(1) = 4$ $S_1 = \{0,1\}$

$\ell(2) = \min\{\infty, 4+8\} = 12$

$\ell(7) = \min\{8, 4+11\} = 8$ ✓

$\ell(3) = \ell(4) = \ell(5) = \ell(6) = \ell(8) = \infty$

Hopi 3: $\ell(7) = 8$ $S_7 = \{0,1,7\}$ $S_7^c = \{2,3,4,5,6,8\}$

$\ell(2) = \min\{12, 8+\infty\} = 12$

$\ell(3) = \min\{\infty, 8+\infty\} = \infty$

$\ell(4) = \min\{\infty, 8+\infty\} = \infty$

$\ell(5) = \min\{\infty, 8+\infty\} = \infty$

$\ell(6) = \min\{\infty, 8+1\} = 9$ ✓

$\ell(8) = \min\{\infty, 8+7\} = 11$

Hopi 4: $\ell(6) = 9$ $S_6 = \{0,1,7,6\}$ $S_6^c = \{2,3,4,5,8\}$

$\ell(2) = \min\{12, 9+\infty\} = 12$

$\ell(3) = \min\{\infty, 9+\infty\} = \infty$

$\ell(4) = \min\{\infty, 9+\infty\} = \infty$

$\ell(5) = \min\{\infty, 9+2\} = 11$ ✓

$\ell(8) = \min\{11, 9+6\} = 11$

$\boxed{d(0,5) = 11}$

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g) $d(A,H) = ?$ $l(A)=0$ $l(B)=l(C)=l(D)=l(E)=l(F)=l(G)=l(H)=\infty$

Hapi I: $l(A)=0$ $S_A=\{A\}$ $S_A^c=\{B,C,D,E,F,G,H\}$

$l(B)=\min\{\infty, 0+22\}=22$

$l(C)=\min\{\infty, 0+1\}=1$ ✓

$l(D)=l(E)=l(F)=l(G)=l(H)=\infty$

Hapi II: $l(C)=1$ $S_C=\{A,C\}$ $S_C^c=\{B,D,E,F,G,H\}$

$l(B)=\min\{22, 1+20\}=21$

$l(D)=\min\{\infty, 1+9\}=10$

$l(E)=\min\{\infty, 1+\infty\}=\infty$

$l(F)=\min\{\infty, 1+2\}=3$ ✓

$l(G)=l(H)=\infty$

Hapi III: $l(F)=3$ $S_F=\{A,C,F\}$ $S_F^c=\{B,D,E,G,H\}$

$l(B)=\min\{21, 3+\infty\}=21$

$l(D)=\min\{10, 3+\infty\}=10$

$l(E)=\min\{\infty, 3+11\}=14$

$l(G)=\min\{\infty, 3+\infty\}=\infty$

$l(H)=\min\{\infty, 3+3\}=6$ ✓

$d(A,H)=6$

Hapi IV: $l(H)=6$ $S_H=\{A,C,F,H\}$ $S_H^c=\{B,D,E,G\}$

$l(B)=\min\{21, 6+\infty\}=21$

$l(D)=\min\{10, 6+\infty\}=10$ ✓

$l(E)=\min\{14, 6+7\}=13$

$l(G)=\min\{\infty, 6+4\}=10$

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10) 0, 1, 2, 2, 2, 3, 3, 3, 4

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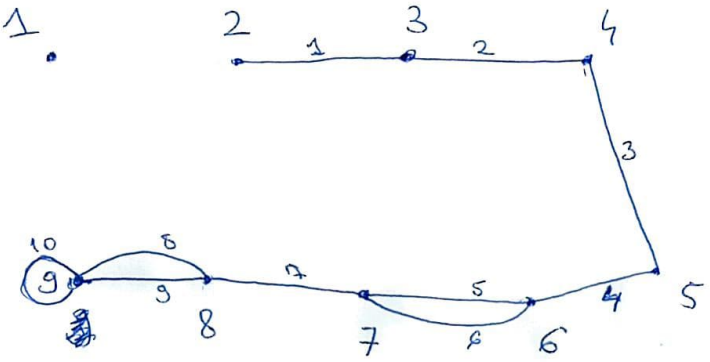
1.



A =

	1	2	3	4	5	6	7	8	9
1	0	0	0	0	0	0	0	0	0
2	0	0	1	0	0	0	0	0	0
3	0	1	0	1	0	0	0	0	0
4	0	0	1	0	1	0	0	0	0
5	0	0	0	1	0	1	0	0	0
6	0	0	0	0	1	0	2	0	0
7	0	0	0	0	0	2	0	1	0
8	0	0	0	0	0	0	1	0	2
9	0	0	0	0	0	0	0	2	1

9x9

M =

	1	2	3	4	5	6	7	8	9	10
1	0	0	0	0	0	0	0	0	0	0
2	1	0	0	0	0	0	0	0	0	0
3	1	1	0	0	0	0	0	0	0	0
4	0	1	1	0	0	0	0	0	0	0
5	0	0	1	1	0	0	0	0	0	0
6	0	0	0	1	1	1	0	0	0	0
7	0	0	0	0	1	1	1	0	0	0
8	0	0	0	0	0	0	1	1	1	0
9	0	0	0	0	0	0	0	1	1	1

9x10

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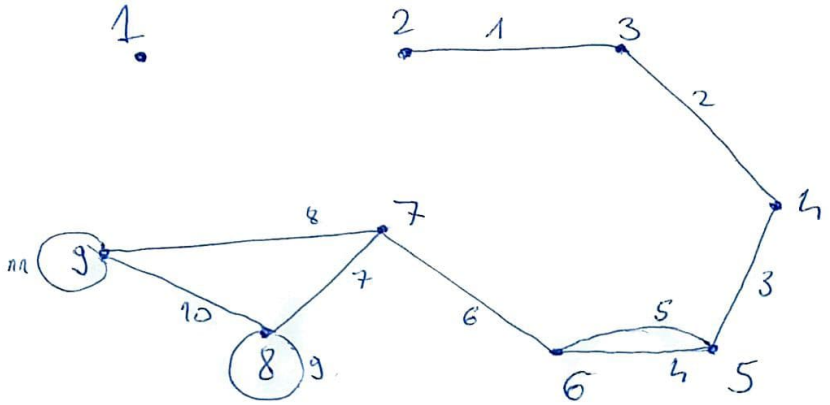
11) 0,1,2,2,3,3,3,4,4

1.



A=

	1	2	3	4	5	6	7	8	9
1	0	0	0	0	0	0	0	0	0
2	0	0	1	0	0	0	0	0	0
3	0	1	0	1	0	0	0	0	0
4	0	0	1	0	1	0	0	0	0
5	0	0	0	1	0	2	0	0	0
6	0	0	0	0	2	0	1	0	0
7	0	0	0	0	0	1	0	1	1
8	0	0	0	0	0	0	1	1	1
9	0	0	0	0	0	0	1	1	1

9x9

M=

	1	2	3	4	5	6	7	8	9	10	11
1	0	0	0	0	0	0	0	0	0	0	0
2	1	0	0	0	0	0	0	0	0	0	0
3	1	1	0	0	0	0	0	0	0	0	0
4	0	1	1	0	0	0	0	0	0	0	0
5	0	0	1	1	1	0	0	0	0	0	0
6	0	0	0	1	1	1	0	0	0	0	0
7	0	0	0	0	0	1	1	1	0	0	0
8	0	0	0	0	0	0	1	0	1	1	0
9	0	0	0	0	0	0	0	1	0	1	1

9x11

12)

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a)

k	d	i	ë	s	j	o	ë	m	e	t
23	7	18	11	35	26	9	14	29	12	15

Hapi I: Riorganizim

7	9	11	12	14	15	18	23	26	29	35
d	o	ë	e	ë	t	i	k	j	m	s

7 + 9 = 16
d + o = T_1

16	11	12	14	15	18	23	26	29	35
T_1	ë	e	ë	t	i	k	j	m	s

Hapi II: Riorganizim

11	12	14	15	16	18	23	26	29	35
ë	e	ë	t	T_1	i	k	j	m	s

11 + 12 = 23
ë + e = T_2

23	14	15	16	18	23	26	29	35
T_2	ë	t	T_1	i	k	j	m	s

Hapi III: Riorganizim:

14	15	16	18	23	23	26	29	35
ë	t	T_1	i	k	T_2	j	m	s

14 + 15 = 29
ë + t = T_3

29	16	18	23	23	26	29	35
T_3	T_1	i	k	T_2	j	m	s

Hapi IV: Riorganizojmë:

16	18	23	23	26	29	29	35
T_1	i	k	T_2	j	m	T_3	s

16 + 18 = 34 T_1 + i = T_4

34	23	23	26	29	29	35
T_4	k	T_2	j	m	T_3	s

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12) a)

Hapi V: Riorganizim

23	23	26	29	29	34	35
k	T_2	j	m	T_3	T_4	a

$23+23=46$
$k+T_2=T_5$

46	26	29	29	34	35
T_5	j	m	T_3	T_4	a

Hapi VI: Riorganizojmë

26	29	29	34	35	46
j	m	T_3	T_4	a	T_5

$26+29=55$
$j+m=T_6$

55	29	34	35	46
T_6	T_3	T_4	a	T_5

Hapi VII: Riorganizojmë

29	34	35	46	55
T_3	T_4	a	T_5	T_6

$29+34=63$
$T_3+T_4=T_7$

63	35	46	55
T_7	a	T_5	T_6

Hapi VIII: Riorganizojmë:

35	46	55	63
a	T_5	T_6	T_7

$35+46=81$
$a+T_5=T_8$

81	55	63
T_8	T_6	T_7

Hapi IX: Riorganizim

55	63	81
T_6	T_7	T_8

$55+63=118$
$T_6+T_7=T_9$

118	81
T_9	T_8

Hapi X: Riorganizim:

81	118
T_8	T_9

$T_8+T_9=T_{10}$

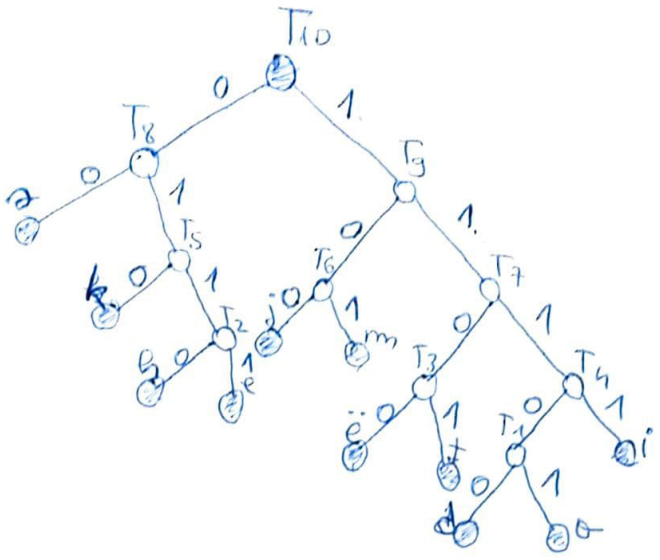
$81+118=199$

199
T_{10}

~~199~~

2)

b)



k = 010
d = 11100
i = 1111
h = 0110
s = 00
j = 100
o = 11101
ë = 1100
m = 101
e = 0111
t = 1101

c) kolië => 010 11101 0110 1100

dité => 11100 1111 1101 1100

mësim => 101 1100 00 1111 101

dije => 11100 1111 100 0111

d) $w(jetë) = l(j)\cdot f(j) + l(e)\cdot f(e) + l(t)\cdot f(t) + l(ë)\cdot f(ë) =$

$= 3\cdot 26 + 4\cdot 12 + 4\cdot 15 + 4\cdot 14 = 78 + 48 + 60 + 56 = \underline{242}$

$w(mësim) = 3\cdot 29 + 4\cdot 14 + 2\cdot 35 + 4\cdot 18 + 3\cdot 29 =$

$= 87 + 56 + 70 + 72 + 87 = \underline{372}$

$w(dije) = 5\cdot 7 + 4\cdot 18 + 3\cdot 26 + 4\cdot 12 = 35 + 72 + 78 + 48 = \underline{233}$

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19204234

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4)

d	s	i	h	ç	n	o	ë	m	j	y	a	e
23	17	5	11	31	26	19	14	29	18	15	6	22

Hapi 1: Riorganizim

5	6	11	14	15	17	18	19	22	23	26	29	31
i	a	h	ë	y	s	j	o	e	d	m	m	r

$5+6=11$
$i+a=T_1$

11	11	14	15	17	18	19	22	23	26	29	31
T_1	h	ë	y	s	j	o	e	d	m	m	r

Hapi 2: Riorganizojmë:

11	11	14	15	17	18	19	22	23	26	29	31
T_1	h	ë	y	s	j	o	e	d	m	m	r

$11+11=22$
$T_1+h=T_2$

22	14	15	17	18	19	22	23	26	29	31
T_2	ë	y	s	j	o	e	d	m	m	r

Hapi 3: Riorganizojmë

14	15	17	18	19	22	22	23	26	29	31
ë	y	s	j	o	T_2	e	d	m	m	r

$14+15=29$
$ë+y=T_3$

29	17	18	19	22	22	23	26	29	31
T_3	s	j	o	T_2	e	d	m	m	r

Hapi 4: Riorganizojmë

17	18	19	22	22	23	26	29	29	31
s	j	o	T_2	e	d	m	T_3	m	r

$17+18=35$
$s+j=T_4$

35	19	22	22	23	26	29	29	31
T_4	o	T_2	e	d	m	T_3	m	r

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(3)

a)

Hapi 5: Riorganizojmë

19	22	22	23	26	29	29	31	35
0	T_2	e	d	m	T_3	m	n	T_4

$19+22=41$
$0+T_2=T_5$

41	22	23	26	29	29	31	35
T_5	e	d	m	T_3	m	n	T_4

Hapi 6: Riorganizojmë

22	23	26	29	29	31	35	41
e	d	m	T_3	m	n	T_4	T_5

$22+23=45$
$e+d=T_6$

45	26	29	29	31	35	41
T_6	m	T_3	m	n	T_4	T_5

Hapi 7: Riorganizojmë

26	29	29	31	35	41	45
m	T_3	m	n	T_4	T_5	T_6

$26+29=55$
$m+T_3=T_7$

55	29	31	35	41	45
T_7	m	n	T_4	T_5	T_6

Hapi 8: Riorganizojmë

29	31	35	41	45	55
m	n	T_4	T_5	T_6	T_7

$29+31=60$
$m+n=T_8$

60	35	41	45	55
T_8	T_4	T_5	T_6	T_7

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Hapi 9: Riorganizim:

35	41	45	55	60
T_4	T_5	T_6	T_7	T_8

$35+41=76$
$T_4+T_5=T_9$

76	45	55	60
T_9	T_6	T_7	T_8

Hapi 10: Riorganizojmë

45	55	60	76
T_6	T_7	T_8	T_9

$45+55=100$
$T_6+T_7=T_{10}$

100	60	76
T_{10}	T_8	T_9

Hapi 11: Riorganizojmë

60	76	100
T_8	T_9	T_{10}

$60+76=136$
$T_8+T_9=T_{11}$

136	100
T_{11}	T_{10}

Hapi 12: Riorganizojmë

100	136
T_{10}	T_{11}

$100+136=236$
$T_{10}+T_{11}=T_{12}$

236
T_{12}

← root

13/ a)

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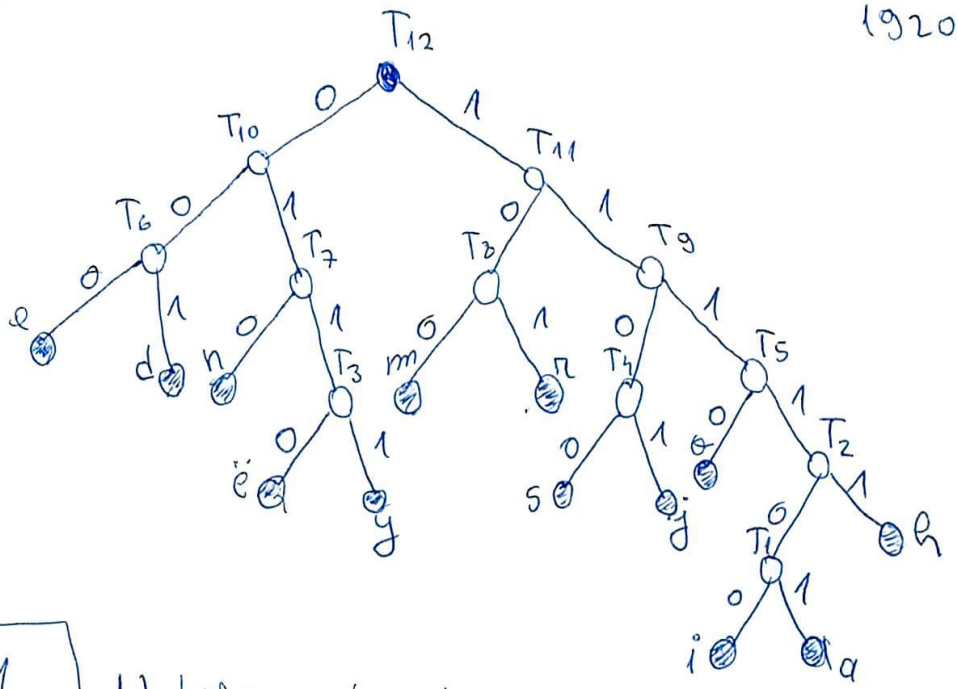

d	001
s	1100
i	111100
h	11111
r	101
h	010
o	1110
ë	0110
m	100
j	1101
y	0111
a	111101
e	000

b) dëshiroj => 001 | 0110 | 1100 | 11111 | 111100 | 101 | 1110 | 1101

mësoj => 100 | 0110 | 1100 | 1110 | 1101

mësyjem => 100 | 0110 | 010 | 0111 | 101 | 0110 | 010

dosyjen => 111101 | 101 | 1100 | 0111 | 1101 | 000 | 010

c) W(dosyje) = 6·6 + 3·31 + 4·17 + 4·15 + 4·18 + 3·22 =

= 36 + 93 + 68 + 60 + 72 + 66 = 395

W(mësyjë) = 3·29 + 4·14 + 3·26 + 4·15 + 3·31 + 4·14 =

= 87 + 56 + 78 + 60 + 93 + 56 = 430

W(dëshiroj) = 3·23 + 4·14 + 4·17 + 5·11 + 6·5 + 3·31 + 4·14 =

= 69 + 56 + 68 + 55 + 30 + 93 + 56 = 427